Case No.: _____
(City use only)

Environmental Resource Inventory

For the City of Austin
Related to LDC 25-8-121, City Code 30-5-121, ECM 1.3.0 & 1.10.0

The ERI is required for projects that meet one or more of the criteria listed in LDC 25-8-121(A), City Code 30-5-121(A).

1. SITE/PROJECT NAME: 2004 E. WILLIAM CANNON

2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 336596

3. ADDRESS/LOCATION OF PROJECT: 2004 E. WILLIAM CANNON DR., AUSTIN, TX

4. WATERSHED: WILLIAMSON

5. THIS SITE IS WITHIN THE *(Check all that apply)*

   Edwards Aquifer Recharge Zone* *(See note below)* ..... ☐YES ☑No
   Edwards Aquifer Contributing Zone* ..... ☐YES ☑No
   Edwards Aquifer 1500 ft Verification Zone* ..... ☐YES ☑No
   Barton Spring Zone* ..... ☐YES ☑No
   **(as defined by the City of Austin – LDC 25-8-2 or City Code 30-5-2)*

   Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas.

6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?.....☐YES** ☑NO
   If yes, then check all that apply:

   ☐ *(1) The floodplain modifications proposed are necessary to protect the public health and safety;*

   ☐ *(2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the Environmental Criteria Manual (ECM), or*

   ☐ *(3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under LDC 25-8-261 or 25-8-262, City Code 30-5-261 or 30-5-262.***

   ☐ *(4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.*

   **** If yes, then a functional assessment must be completed and attached to the ERI (see ECM 1.7 and Appendix X for forms and guidance) unless conditions 1 or 3 above apply.**

7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE? ..... ☐YES*** ☑NO

   *****If yes, then riparian restoration is required by LDC 25-8-261(E) or City Code 30-5-261(E) and a functional assessment must be completed and attached to the ERI (see ECM1.5 and Appendix X for forms and guidance).**

8. There is a total of 0 (#'s) Critical Environmental Feature(s)(CEFs) on or within150 feet of the project site. If CEF(s) are present, attach a detailed **DESCRIPTION** of the CEF(s), color **PHOTOGRAPHS**, the **CEF WORKSHEET** and provide **DESCRIPTIONS** of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or within 150 feet of the site *(Please provide the number of CEFs)*:

_____ (#'s) Spring(s)/Seep(s) _____ (#'s) Point Recharge Feature(s) _____ (#'s) Bluff(s)

_____ (#'s) Canyon Rimrock(s) _____ (#'s) Wetland(s)

Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is not provided, you must provide a written request for an administrative variance from LDC 25-8-281(C)(1) and provide written findings of fact to support your request. Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.

9. The following site maps are attached at the end of this report *(Check all that apply and provide):*

All ERI reports must include:

- ☑ **Site Specific Geologic Map with 2-ft Topography**
- ☑ **Historic Aerial Photo of the Site**
- ☑ **Site Soil Map**
- ☑ **Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography**

Only if present on site *(Maps can be combined):*

- ☐ **Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone**
  (Only if site is over or within 1500 feet the recharge zone)
- ☐ **Edwards Aquifer Contributing Zone**
- ☐ **Water Quality Transition Zone (WQTZ)**
- ☐ **Critical Water Quality Zone (CWQZ)**
- ☐ **City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage**

10. **HYDROGEOLOGIC REPORT** – Provide a description of site soils, topography, and site specific geology below *(Attach additional sheets if needed):*

Surface Soils on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness		
Soil Series Unit Name & Subgroup**	Group*	Thickness (feet)
PaC- Patrick soils, 2-5% slopes	B	>6.5

Soil Hydrologic Groups Definitions *(Abbreviated)

A. Soils having a high infiltration rate when thoroughly wetted.

B. Soils having a moderate *infiltration* rate when thoroughly wetted.

C. Soils having a slow infiltration rate when thoroughly wetted.

D. Soils having a very slow infiltration rate when thoroughly wetted.

**Subgroup Classification – See Classification of Soil Series Table in County Soil Survey.

Description of Site Topography and Drainage *(Attach additional sheets if needed)*:

The site topography sloped from west to east with an overall elevation change of approximately 14 feet. The site drains toward a dry wash creek on the adjacent property to the east.

List surface geologic units below:

Geologic Units Exposed at Surface		
Group	Formation	Member
	Quaternary High Gravel (Qhg)	

Brief description of site geology *(Attach additional sheets if needed)*:

Referencing the Geologic Atlas of Texas, Austin Sheet and The University of Texas Bulletin No. 3232, The Geology of Texas, Volume 1, the subject site is underlain by Quaternary sedimentary strata. The area lies east of the Balcones Fault Zone, a geologic province characterized in this region by north northeast trending en echelon normal faults with the downthrown side most commonly to the east of the fault planes.

The Balcones Fault Zone trend closely follows the structural trend of the late Paleozoic Ouachita fold and thrust belt. Faulting may have been initiated in the Late Cretaceous with the majority of movement taking place during the late Oligocene and early Miocene. Minor isostatic adjustments resulting from sediment loading in the Gulf of Mexico continue to the present.

According to the Geologic Atlas of Texas Austin Sheet the site geologic outcrop consists of the Quaternary High Gravel (Qhg) fluviatile terrace deposits. The terrace deposits typically include silty clays, marls and gravel. During the site inspection gravel terrace deposits were observed at the site surface. However, it should also be noted that the site supports a dense vegetation cover.

Wells – Identify all recorded and unrecorded wells on site (test holes, monitoring, water, oil, unplugged, capped and/or abandoned wells, etc.):

There are _0_(#) wells present on the project site and the locations are shown and labeled

___(#'s)The wells are not in use and have been properly abandoned.

___(#'s)The wells are not in use and will be properly abandoned.

___(#'s)The wells are in use and comply with 16 TAC Chapter 76.

There are _0_(#'s) wells that are off-site and within 150 feet of this site.

11. **THE VEGETATION REPORT** – Provide the information requested below:

Brief description of site plant communities *(Attach additional sheets if needed)*:

The vegetation on the site consisted primarily of a heavy canopy of Ash Juniper with some Live Oak. Under-story species notes included Elbow Bush, Cat Brier, Lindheimer Silk Tassel and Texas Kidneywood. There were very few forbs or grasses under the heavy canopy with most forbs and native wildflowers being present at the south entrance to the property bordering E. William Cannon Drive.

There is woodland community on site .....☑YES ☐ NO *(Check one).*
If yes, list the dominant species below:

Woodland species	
Common Name	Scientific Name
Ash Juniper	Juniperus ashei

There is grassland/prairie/savanna on site.....☐YES ☑ NO *(Check one).*
If yes, list the dominant species below:

Grassland/prairie/savanna species	
Common Name	Scientific Name

There is hydrophytic vegetation on site .....☐YES ☑ NO *(Check one).*
If yes, list the dominant species in table below *(next page)*:

Hydrophytic plant species		
Common Name	Scientific Name	Wetland Indicator Status

A tree survey of all trees with a diameter of at least eight inches measured four and one-half feet above natural grade level has been completed on the site.
☑YES ☐ NO *(Check one).*

12. **WASTEWATER REPORT** – Provide the information requested below.

Wastewater for the site will be treated by *(Check of that Apply)*:

☐ On-site system(s)
☑ City of Austin Centralized sewage collection system
☐ Other Centralized collection system

Note: All sites that receive water or wastewater service from the Austin Water Utility must comply with City Code Chapter 15-12 and wells must be registered with the City of Austin

The site sewage collection system is designed and will be constructed to in accordance to all State, County and City standard specifications.
☑YES ☐ NO *(Check one).*

Calculations of the size of the drainfield or wastewater irrigation area(s) are attached at the end of this report or shown on the site plan.
☐YES ☐ NO ☑ Not Applicable *(Check one).*

Wastewater lines are proposed within the Critical Water Quality Zone?
☐YES ☑ NO *(Check one)*. If yes, then provide justification below:

Is the project site is over the Edwards Aquifer?
☐YES ☑ NO *(Check one).*

If yes, then describe the wastewater disposal systems proposed for the site, its treatment level and effects on receiving watercourses or the Edwards Aquifer.

13. One (1) hard copy and one (1) electronic copy of the completed assessment have been provided.

Date(s) ERI Field Assessment was performed: May 6, 2016
Date(s)

My signature certifies that to the best of my knowledge, the responses on this form accurately reflect all information requested.

Skylar Netherland	512-335-1785
Print Name	Telephone
Signature	Skylar@rangerenv.com
	Email Address
Ranger Environmental Services, Inc	5/16/16
Name of Company	Date

For project sites within the Edwards Aquifer Recharge Zone, my signature and seal also certifies that I am a licensed Professional Geoscientist in the State of Texas as defined by ECM 1.12.3(A).

STATE OF TEXAS
KEITH COPELAND
GEOLOGY
1020
LICENSED
PROFESSIONAL GEOSCIENTIST

5/16/16

City of Austin Environmental Resource Inventory - Critical Environmental Feature Worksheet

1	Project Name:	2004 E. William Cannon
2	Project Address:	2004 E. William Cannon Drive, Austin, TX
3	Site Visit Date:	May 6, 2016
4	Environmental Resource Inventory Date:	May 6, 2016

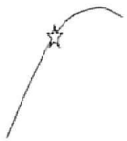
5	Primary Contact Name:	Skylar Netherland
6	Phone Number:	512-619-2958
7	Prepared By:	Skylar Netherland
8	Email Address:	Skylar@rangerenv.com

9	FEATURE TYPE {Wetland,Rimrock, Bluffs,Recharge Feature,Spring}	FEATURE ID (eg S-1)	FEATURE LONGITUDE (WGS 1984 in Meters)		FEATURE LATITUDE (WGS 1984 in Meters)		WETLAND DIMENSIONS (ft)		RIMROCK/BLUFF DIMENSIONS (ft)		RECHARGE FEATURE DIMENSIONS				Springs Est. Discharge
			coordinate	notation	coordinate	notation	X	Y	Length	Avg Height	X	Y	Z	Trend	cfs

No CEF's Located during site inspection

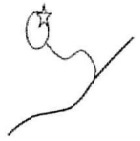
City of Austin Use Only CASE NUMBER:	

For rimrock, locate the midpoint of the segment that describes the feature.



For wetlands, locate the approximate centroid of the feature and the estimated area.

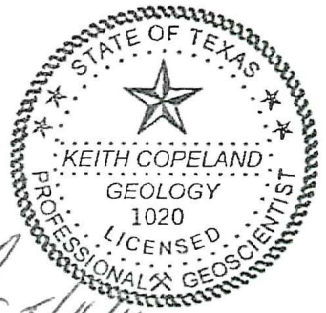
For a spring or seep, locate the source of groundwater that feeds a pool or stream.



Please state the method of coordinate data collection and the approximate precision and accuracy of the points and the unit of measurement.

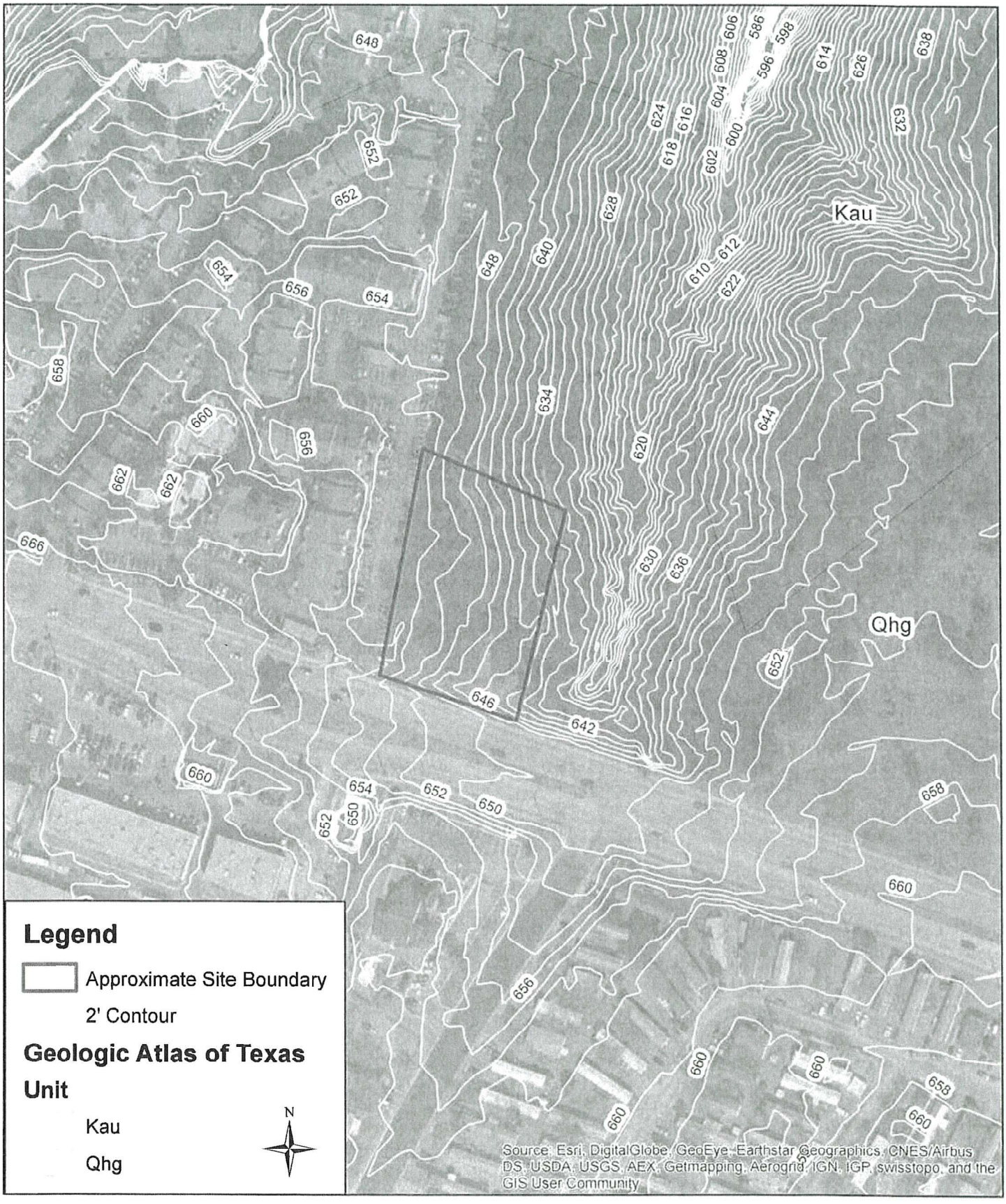
Method		Accuracy	
GPS	☐	sub-meter	☐
Surveyed	☐	meter	☐
Other	☐	> 1 meter	☐

Professional Geologists apply seal below



3/16/16

Geologic Atlas of Texas with 2 Foot Contours
2004 E William Cannon



0 125 250 500 Feet

Base map referenced from the
Center for Geospatial Technology, Texas Tech University,
obtained from the Texas Geologic Atlas Project